5A23 Effects of the fungicide folpet in glutathione levels in the gastrointestinal tract following oral adminstration to mice and rats.
Hall M., M.C. Jordan, A.R. Waller, **B.C. Mayo**, L.F. Chasseaud, I. Friedman* and Z. Paster*
Dept. of Metabolism, Huntingdon Research Centre, Huntingdon, Cambs. PE18 6ES, UK; * Makteshim Chemical Works, Beer-Sheva 84100, Israel.

5A17 Paracetamol cytotoxicity and intracellular calcium in isolated hamster hepatocytes.
Hardwick Simon J., James W. Wilson, Duncan J. Fawthrop, Alan R. Boobis and Donald S. Davies
Dept. of Clinical Pharmacology, Royal Postgraduate Medical School, London W12 0NN, UK.

5A22 Induced glutathione synthesis in pig hepatocytes exposed to fural zolidone.
Hoogenboom Fon L.A.P., Marcel C.J. Berghmans and M. van Kammen
RIKILT, Bornsesteeg 45, NL-6708 PD Wageningen, The Netherlands.

5A9 Protective effect of chelating agents against liver injury induced by galactosamine and endotoxin in mice.
Hu W.W. and W.M. Tom
Department of Pharmacology, Faculty of Medicine, University of Hong Kong, Hong Kong.

5A8 The responsibility of cytochrome P450 for hydrazine toxicity in vivo.
Jenner A.M. and J.A. Timbrell
Toxicology Unit, The School of Pharmacy, University of London, 29/39 Brunswick Square, London, WC1N 1AX, UK.

5A11 Biosynthesis of toxic glutathione S-conjugates: their possible role in aminophenol-nephrotoxicity.
Klos C., M. Koob, C. Kramer and **W. Dekant**
Institut für Toxikologie, Universität Würzburg, Versbacher-Straße 9, D-8700 Würzburg, FRG.

5A4 One-electron reduction of quinones of BHA and OPP by flavoenzymes.
Kurebayashi Hideo, Naoki Miyata anbd Atsushi Takahashi
National Institute of Hygienic Sciences, Setagaya-ku, Tokyo 158, Japan.

5A21 Cyto-protective effects of ebselen on paracetamol induced hepatotoxicity in freshly isolated hepatocytes from rats.
Li Qiu-Ju, Johan M. te Koppele and Nico P.E. Vermeulen
Dept. of Pharmacochemistry, Division of Molecular Toxicology, Free University, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands.

5A10 Chemical basis for R-(+)-pulegone mediated toxicity.
Madyastha K.M. and C. Paul Raj
Dept. of Organic Chemistry, Indian Institute of Science, Bangalore-560 012, India.

5A2 Reaction of hemoglobin with free radicals: globin-heme interaction in the process of hemichrome formation.
Mallozzi Cinzia, Giuseppe Scorza and Maurizio Minetti
Instituto Superiore di Sanità, Via le R. Elena 299, I-00161 Roma, Italy.

5A20 Modulation of the cytotoxicity of anethole epoxide by the cytosolic epoxide hydrolase (cEH) inhibitor 4-fluorochalcone oxide (FCO) in isolated rat hepatocytes.
Marshall A. David and John Caldwell
Dept. of Pharmacology and Toxicology, St. Mary's Hospital Medical School (Imperial College), London W2 1PG, UK.

5A3 Metabolism and toxicity of 3-methylthio paracetamol in mice.
Mikov M.M.
Dept. of Pharmacology and Toxicology, Medical Faculty, Novi Sad, Yugoslavia.

5A24 Depletion of erythrocyte glutathione by extracellularly activated metabolites.
Palmen N.G.M., C.T.A. Evelo and P.Th. Henderson
Dept. of Occupational & Environmental Health and Toxicology, University of Limburg, Maastricht, The Netherlands.

5A19 Metabolism of cinnamaldehyde in male F344 rat and rat suspended hepatocytes.
Peters M. and J. Caldwell
Dept. of Pharmacology and Toxicology, St. Mary's Hospital Medical School (Imperial College), London W2 1PG, UK.

5A16 Metabolism of human endothelial glutathione during oxidant insult: involvement of protein-specific S-thiolation.
Schuppe Ina and Ian A. Cotgreave
Dept. of Toxicology, Karolinska Institutet, Box 60400, S-104 01 Stockholm, Sweden.

5A14 Fenton-reactive iron binding to isolated rat hepatocytes and its involvement in peroxide-mediated toxicity.
Shertzer Howard G., Gerard L. Bannenberg and Peter Moldéus
University Cincinnati Medical Center, Cincinnati, OH 45267-0056, USA, and Karolinska Institute, Box 60400, S-104 01 Stockholm, Sweden.

5A15 Both chemoprotection and chemical toxicity may be mediated by changes in membrane fluidity.
Shertzer Howard G., Gerard L. Bannenberg, Mats Rundgren, Lena Låstbom and Peter Moldéus
University Cincinnati Medical Center, Cincinnati, OH 45267-0056, USA, and Karolinska Institute, Box 60400, S-104 01 Stockholm, Sweden.

5A18 Modulation of cinnamaldehyde depletion of reduced glutathione (GSH) and cytotoxicity in rat hepatocytes.
Swales N.J. and J. Caldwell
Dept. of Pharmacology and Toxicology, St. Mary's Hospital Medical School (Imperial College), London W2 1PG, UK.

5A7 Time dependent conceptual metabolism in vitro of QA 208-199 after preinduction in utero with various cytochrome P-450 enzyme inducers.
Terlouw Gerrard D.C. and Rudolf Bechter
Dept. of Toxicology, Sandoz Agro Ltd. and Drug Safety Assessment, Sandoz Pharma Ltd., CH-4002 Basel, Switzerland.

5A13 Thiol mediated nephrotoxicity by 1,2-dichloro-propane.
Trevisan Andrea, Paola Meneghetti and Stefano Maso
Institute of Occupational Health, University of Padua, Via Facciolati 71, I-35127 Padua, Italy.

5A6 The effects of free radicals release and lipid peroxidation by two germanium compounds.
Zhang P.J., A.Y. Yu and W.M. Tom*
Dept. of Pharmacology, Shanghai 2nd Medical University, Shanghai 200025, P.R. China; * Dept. of Pharmacology, Faculty of Medicine, Hong Kong University, Hong Kong.

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6. Drug Metabolism enzymes in vitro Cytochrome P450 and flavine mono-oxygenases (6A1 - 6A19)

6A12 Listeria monocytogenes infection decreases cytochrome P-450-mediated metabolism by a pretranslational mechanism.
Armstrong Steven and Kenneth Renton
Dept. of Pharmacology, Dalhousie University, Sir Charles Tupper Medical Building, Halifax, Nova Scotia, Canada, B3H 4H7.

6A7 Presence of coumarin and testosterone hydroxylase in reindeer liver.
Arvela P., J. Mäenpää, M. Nieminen* and O. Pelkonen
Dept. Pharmacology and Toxicology, University of Oulu, Finland. *Finnish Game and Fisheries Res. Inst., Reindeer Res. Inst., Rovaniemi, Finland.

6A17 Depression of Cyt P450 by inflammatory mediators.
Bryden Kathleen E., Kenneth W. Renton and Gurmit S. Singh*
Dalhousie University, Halifax, Nova Scotia, Canada and * MacMaster University, Hamilton, Ontario, Canada.

6A8 Evidence from dwarf rasts that growth hormone may not regulate the sexual differentiation of liver P-450 enzymes and steroid 5a-reductase.
Bullock P.L., D. Johnson, P.E. Thomas and A. Parkinson
University of Kansas Medical Center, Kansas City, KS, USA and Rutgers University, Piscataway, NJ, USA

6A9 Regulation of cytochrome P450IVA1 gene expression by an interferon mediated mechanism.
Butsara Daksha, Maurice Dickens*, Peter S. Goldfarb and G. Gordon Gibson
Molecular Toxicology Group, School of Biological Sciences, University of Surrey, Guildford GU2 5XH, UK; * Wellcome Research Laboratories, Beckenham, Kent BR3 3BS, UK

6A5 Measurement of flavin-containing monooxygenase activity in freshly isolated hepatocytes and their cultures.
Coecke Sandra, Karin Mertens, André Callaerts, Vera Rogiers and Antoine Vercruysse
Dept. Toxicology, Vrije Universiteit Brussel, Belgium.

6A6 Microsomal metabolism of thiocarbamides: role of flavin-containing and P450 monooxygenases.
Doerge Daniel R. and Caroline J. Decker
University of Hawaii, Honolulu, HI 96822, USA.

6A2 The role of cytochrome P450 versus NADPH-cytochrome P450 reductase in the reduction of duroquinone.
Goeptar A.R., J.M. te Koppele, L.M.H. Koymans, J.M. Piqué and N.P.E. Vermeulen
Dept. of Pharmacochemistry, Division of Molecular Toxicology, Free University, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands.

6A3 Bufuralol hydroxylation in non-human primate liver microsomes as a model of human cytochrome P450IID6.
Hansen K.T.
Dept. of Drug Metabolism, CNS Division, Novo Nordisk A/S, DK-2880 Bagsværd, Denmark.

6A16 Effects of tetrahydrofurane on rat liver microsomal monooxygenase activities.
Kozlovskaya Nina E., Vladimir M. Mishin, Alevtina Yu. Grishanova and Vyacheslav V. Lyakhovich
Institute of Clinical and Experimental Medicine, Novosibirsk, USSR.

6A4 Determination of the steric and electronic factors of the enantioselective oxidation of sulfides by rabbit lung flavin containing monooxygenase.
Meier G.P., P.J. Booker*, C.A. Gartner*, I. Lim* and A.E.Rettie*
Dept. of Pharmaceutical Sciences, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2301, USA; * Dept. of Medicinal Chemistry, School of Pharmacy, University of Washington, Seattle, WA 98195, USA.

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6A14 Mab 1-7-1 as a probe for estimation of metabolic activities of cytochromes P450IA in nuclei and microsomes of rodent liver.
Mitrofanov D.V., **N.E. Polyakova**, O.B. Chasovnikova, S.S. Park*, H.V. Gelboin* and I.B. Tsyrlov
ICEM, AMS USSR Novosibirsk and *NCI, NIH, Bethesda, MD., USA.

6A15 Metabolic activities of cytochrome P450IA subfamily isozymes in rodent liver microsomes and nuclei.
Mitrofanov Dmitriy, **Natalya Polyakova**, Konstantin Gerasimov and Ilya Tsyrlov
Institute of Clinical and Experimental Medicine, Novosibirsk, USSR.

6A1 Photoaffinity labeling of rat cytochrome P4501A1 by azidowarfarins.
Obach R.S. and **L.S. Kaminsky**
Wadsworth Center, New York State Dept. of Health, P.O. Box 509, Albany, NY 12201, USA.

6A10 The enzymology involved in the *in vitro* metabolism of mifentidine.
Pattichis K., M. Kajbaf and J.W. Gorrod
Chelsea Dept. of Pharmacy, King's College London, University of London, Manresa Road, London SW3 6LX, UK.

6A11 Pretranslational depression of cytochrome P-450la1 during the activation of host defence mechanisms.
Renton K.W., S. Armstrong and R. Hawwa
Dept. of Pharmacology, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 4H7.

6A19 Phytoalexins: role of microsomal cytochrome P450s as part of the defense mechanism of bean sprouts.
Shet Manjunath and Ronald W. Estabrook
Dept. of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75235, USA.

6A18 Hydroxylation of lauric acid and testosterone by rat liver cytochrome P450IVA in reconstituted systems.
Thomas Helmut, Elvira Molitor, Heinz Kuster, Conrad Savoy, Carl R. Wolf and Felix Waechter
Toxicology Services, CIBA-GEIGY Ltd., Basel, Switzerland and ICRF, Edinburgh, UK.

6A13 N-Demethylation of theophylline by the arocior 1254-induced rat liver microsomes.
Vavilin Valentin V., Olga A. Gromova, Alevtina Yu. Grishanova and Vyacheslav V. Lyakhovich
Institute of Clinical & Experimental Medicine, Novosibirsk, USSR.

6. Drug Metabolism Enzymes in vitro other enzymes (6B1 - 6B16)

6B1 Kinetic studies on rat liver microsomal glutathione transferase.
Andersson Claes*^, Erifili Mosaliou, Gerd Lundqvist, Anton E.P. Adang¶ and **Ralf Morgenstern***
* Dept. of Toxicology, ^ Dept. of Biochemistry, Karolinska Institutet, Box 60400, S-10401 Stockholm; Dept. of Organic Chemistry and Center for Biopharmaceutical Sciences, University of Leyden, Leyden, The Netherlands.

6B15 Bioactivation of cysteine-S-conjugates of halogenated alkenes by a *non-enzymic model* for cysteine conjugate b-lyase.
Commandeur **Jan N.M.**, Johnny Hageman, J. Thomas Sanderson, Luc Koymans and Nico P.E. Vermeulen
Dept. of Pharmacochemistry, Division of Molecular Toxicology, Free University, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands.

6B6 Sex and age dependent differences in the hepatic sulfotransferase activity.
Gilissen R.A.H.J., G.J. Mulder and J.H.N. Meerman
Division of Toxicology, Center for Bio-Pharmaceutical Sciences, University of Leyden, Leyden, The Netherlands.

Source: https://www.industrydocuments.ucsf.edu/docs/gxdl0000

6B3 Characterization of dog liver glutathione S-transferases.
Igarashi I., A. Kohara, Y. Shikata*, F. Sagami*, T. Horie* and T. Satoh
Faculty of Pharmaceutical Sciences, Chiba University, Chiba, Japan; * Eisai Co., Ltd., Tsukuba, Japan.

6B7 Molecular cloning and expressions of polymorphic acetyl-transferase of hamster liver.
Kato Ryuichi, Medhat Abu-Zeid, Shogo Ozawa and Yasushi Yamazoe
Dept.of Pharmacology, School of Medicine, Keio University, Shinjuku-ku, Tokyo 160, Japan.

6B8 The role of long chain fatty acid CoA ligase in the metabolism of xenobiotic carboxylic acids.
Knights Kathie M. and Ben J. Roberts
Dept. of Clinical Pharmacology, The Flinders University of South Australia, Bedford Park, Adelaide, South Australia 5042.

6B10 Purification and characterisation of hepatic aldehyde oxidase from guinea pig.
Mohammed M.N., G.G. Gibson, P.S. Goldfarb and D.J. Rance*
Molecular Toxicology Group, School of Biological Sciences, University of Surrey, Guildford GU2 5XH, UK; * Pfizer Central Research, Dept. of Drug Metabolism, Sandwich, Kent, UK.

6B9 (R)-Ibuprofen-S-coenzyme A synthetase activity in hepatic subcellular fractions from rat, mouse, hamster and guinea-pig.
Moxham M.T. and A.R. Boobis
Dept. of Clinical Pharmacology, Royal Postgraduate Medical School, Du Cane Road, London W12 0NN, UK.

6B11 Establishment of an evolutionary conserved microsomal class of liver enzymes involved in steroidogenesis and reductive xenobiotic carbonyl metabolism.
Oppermann U., E. Maser, J.J.R. Hermans*, H.H.W. Thijssen*, T. Gebel and K.J. Netter
Dept. of Pharmacology and Toxicology, Philipps University Marburg, FRG; * Dept. of Pharmacology, University of Limburg, Maastricht, The Netherlands.

6B12 Characterization of pig lung carbonyl reductase.
Sawada Hideo, Hiroyuki Oritani, Toshihiro Nakayama, Yoshihiro Deyashiki, Akira Hara, Isao Ohya*, Yasuo Bunai* and Kazuya Matsuura*
Gifu Pharmaceutical University and *Gifu University School of Medicine, Gifu, Japan.

6B14 Molecular cloning of the rat kidney cytosolic cysteine conjugate b-lyase gene.
Schofield M.A., M. MacFarlane, P.S. Goldfarb, E.A. Locke*, L.J. King and G.G. Gibson
Molecular Toxicology Group, School of Biological Sciences, University of Surrey, Guildford GU2 5XH, UK; * Central Toxicology Laboratory, ICI plc., Alderley Park, Macclesfield, Cheshire, SK10 4TJ, UK.

6B13 An enzyme mechanism study and structure activity relationships for rat renal cytosolic b-lyase.
Stijntjes Gerard J., Jan N.M. Commandeur, Bob Beekman, Andy W. Snabilié, Johan M. te Koppele and Nico P.E. Vermeulen
Dept. of Pharmacochemistry, Division of Molecular Toxicology, Free University, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands.

6B16 Stereoselective interactions of bambuterol with human plasma cholinesterase.
Tunek Anders, Britt-Marie Kennedy* and Ann Svensson*
AB Draco, Dept. Pharmacology and Dept. Bioanalytical Chemistry*, Box 34, S-221 00 Lund, Sweden.

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6B2 Irreversible and active site directed inhibition ofglutathione S-tranferases.
Van Ommen Ben, Jan Peter Ploemen and Peter J. van Bladeren
TNO Toxicology and Nutrition Institute, Zeist, The Netherlands

6B4 Changes in the composition of glutathione S-tranferases in rat liver after oral administration of benzo(a)pyrene.
Yamauchi Aiko, Hiroyasu Yamazaki and Yasuo Kakiuchi
Faculty of Pharmaceutical Sciences, Kobe-Gakuin University, Nishi-ku, Kobe 651-21, Japan.

6B5 Expression and functional characterization of a phenol sulfotransferase cDNA, PST-1.
Yamazoe Yasushi, Shogo Ozawa, Dawei Gong, Kiyoshi Nagata and Ryuichi Kato
Dept. of Pharmacology, School of Medicine, Keio University, Tokyo, Japan.

6. Drug Metabolism Enzymes in vitro Induction of drug metabolising enzymes (6C1 - 6C15)

6C8 Dual effect of triazolodiazepine derivative, E6123 on monooxygenase of dogs.
Abe K., K. Kusano, T. Nakamura, T. Taki, T. Yuzuriha, T. Horie, S. Ohmori* and Y. Kanakubo*
Tsukuba Res. Lab., Eisai Co., Ibaraki and Chiba University*, Chiba, Japan.

6C10 Lack of stereoselectivity of peroxisome proliferation by 2-phenylpropionic acid (2-PPA) indicates that its acyl CoA does not play a role in this phenomenon.
Ahmad Dzulkifly and John Caldwell
Dept. of Pharmacology and Toxicology, St. Mary's Hospital Medical School (Imperial College), London W2 1PG, UK.

6C7 Is the scoparone O-demethylase assay usefulfor categorizing types of hepatic microsomal monooxygenase inducers?
Desager Jean-P., Yves Horsmans and Carl Harvengt
Université Catholique de Louvain, B-1200 Brussels, Belgium.

6C9 Induction of cytochrome P-450 IVA1 in the liver of rats treated with peroxisome proliferating compounds and classical P-450 inducers.
Dirven H.A.A.M., P.H.H. van den Broek, J.G.P. Peters, J. Noordhoek and F.J. Jongeneelen
Dept. of Toxicology, University of Nijmegen, P.O. Box 9101, NL-6500 HB Nijmegen, The Netherlands.

6C15 Species differences in induction of hepatic andextrahepatic cytochromes P-450IA and IIB by mixed-type inducers.
Grishanova Alevtina Yu., Lyudmila F. Gulyaeva and Vyacheslav V. Lyakhovich
Institute of Clinical and Experimental Medicine, Novosibirsk, USSR.

6C12 Effects of mixed type inducers on the androstenedione metabolism in liver microsomes of Ah-responsive and Ah-non-responsive mice.
Gulyaeva Lyudmila F., Alevtina Yu. Grishanova and Vyacheslav V. Lyakhovich
Institute of Clinical and Experimental Medicine, Novosibirsk, USSR.

6C6 Remoxipride is a poor inducer of hepatic P450s in rat.
Hansson T., U.-B. Gunnarsson, E. Erixson-Carlqvist, W. Hellström, L.B. Nilsson and M. Widman
Dept. of Drug Metabolism, Astra Research Centre AB, S-151 85 Södertälje, Sweden.

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